

DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

11/08/2011

Aaron Strojny Assistant District Attorney, Bristol County

Dear ADA Strojny,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:



- 1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for samples #



- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #



Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely

Annie Dookhan

Chemist

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- *Notary Public.
- *Oualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice - Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003 MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- > Generated and examined sensors employing fluorescence spectroscopy
- > Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 - August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts Executive Office of Health and Human Services

Executive Office of Health and Human Services
Department of Public Health
State Laboratory Institute

Boston Drug Laboratory Tel (617) 983-6622 Fax (617) 983-6625 Amherst Drug Laboratory Tel (413) 545-2601 Fax (413) 545-2608

Boston Hours

8:00 - 11:00

DRUG RECEIPT

Amherst Hours

9:00 - 12:00

| 2:00 - 4:00 | DRUG RECE | | 1:00 – 12:00 1:00 – 3:00 |
|--|-----------|---------------------------------|---|
| City or Department: Full Live | en Dalaha | Police Reference No. | |
| Name and Rank of Submitting Officer: _ | 42F 100V | THE THE WAY | 4 ::::::::::::::::::::::::::::::::::::: |
| Defendant(s) Name (last, first, initial): | | | |
| | | | |
| | · | | |
| To be completed by Submitter Description of Items Submitted | | To be completed by Gross Weight | Lab Personnel Lab Number |
| 1) Z P.B. Po | W | 26,40g | |
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| | | | -1-7 |
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| | | | |
| D | | | 1. 0 |
| Received by: | 0 | Date: | 11-9-10 |

No.

Date Analyzed: [[] []

City: Fall River Police Dept.

Officer: Detective N. PACHECO

Def:

Amount: No. Cont:

À

2

Cont: pb

Date Rec'd: 11/09/2010

Gross Wt.:

26.40

No. Analyzed:

Net Weight: 20.10

Subst: SUB

#Tests:

Prelim: 1481017

Findings:

DRUG POWDER ANALYSIS FORM

| SAMPLE # AGENCY Fac | WRige ANALYST ASS |
|------------------------------|-------------------------|
| No. of samples tested: | Evidence Wt. |
| PHYSICAL DESCRIPTION: | Gross Wt (2): 21.1209 |
| Beige chang substace | Gross Wt(): |
| 14 5678 | Pkg. Wt: |
| cloublebayer | Net Wt: |
| 74 | |
| | |
| | |
| | |
| PRELIMINARY TESTS Spot Tests | Microcrystalline Tests |
| Cobalt Thiocyanate (+-) | Gold Chloride |
| 2 Marquis + | TLTA () |
| Froehde's + | OTHER TESTS |
| 2 Mecke's + | |
| | |
| | |
| PRELIMINARY TEST RESULTS | GC/MS CONFIRMATORY TEST |
| RESULTS WELOW | RESULTS HEADIN |
| DATE 11-15-10 | MS OPERATOR 1CAC |
| | DATE 11-19-10 |

samples tested; 2

| # | Gross Weight | Packet Weight | Net Weight | # | Gross Weight | Packet Welght | Net Welght |
|----|---|---|---|----|--|--|--|
| 1 | 10-6346 | 0.52ገ8 | 10.1068 | 26 | | | 45584 |
| 2 | 10-4856 | | 9.9980 | 27 | | ************************************** | |
| 3 | | | | 28 | | | |
| 4 | | ······································ | | 29 | | | - |
| 5 | | 2000 000000 Miles | | 30 | | | |
| 6 | | - | | 31 | Market Company | | |
| 7 | | *************************************** | | 32 | | | |
| 88 | | | | 33 | *************************************** | | |
| 9 | · | | | 34 | | | |
| 10 | | | | 35 | | | - Vany one - |
| 11 | - | | | 36 | | | |
| 12 | | | | 37 | | | |
| 13 | | | | 38 | ······································ | | MANAGE N |
| 14 | - | | | 39 | - The second sec | | Threateness du 11-4 |
| 15 | | | | 40 | ····· | | |
| 16 | | | | 41 | | · · · · · · · · · · · · · · · · · · · | ONNINGE THROUGH TO SOME THE SECOND SE |
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| 21 | *************************************** | | aranaganyo | 46 | | | |
| 22 | | | | 47 | | | <u> </u> |
| 23 | | ************************************** | | 48 | | | |
| 24 | | | | 49 | | | |
| 25 | lotione: | | *************************************** | 50 | | | |

Calculations:

Ne+ w+ = 20,1048

Area Percent / Library Search Report

VKAC 11/2/11

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755504.D

Operator : KAC

Date Acquired : 17 Nov 2010 12:26

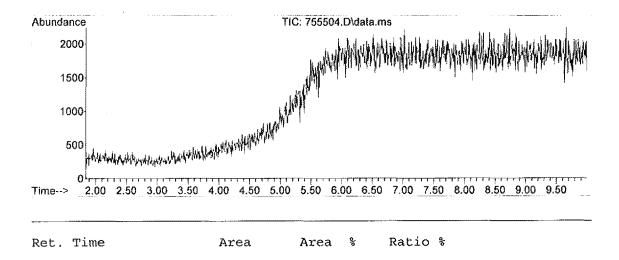
Sample Name : BLANK

Submitted by

Vial Number : 1

AcquisitionMeth: DRUGS.M

Integrator : RTE



NO INTEGRATED PEAKS

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755505.D

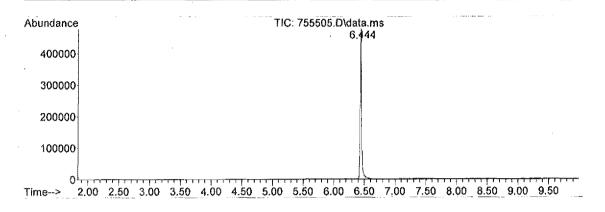
Operator : KAC

Date Acquired : 17 Nov 2010 12:39

Sample Name : HEROIN STD

Submitted by

Vial Number : 5 AcquisitionMeth: DRUGS.M Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 6.444 | 754463 | 100.00 | 100.00 |

File Name : F:\Q4-2010\SYSTEM7\11 17 10\755505.D

Operator : KAC

Date Acquired : 17 Nov 2010 12:39

: HEROIN STD Sample Name

Submitted by

Vial Number 5 AcquisitionMeth: DRUGS.M ; RTE Integrator

Search Libraries:

Minimum Quality: 80 C:\Database\SLI.L Minimum Quality: 70

C:\Database\NIST05a.L

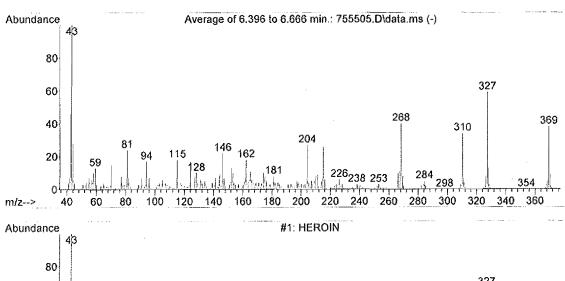
C:\Database\PMW TOX2.L

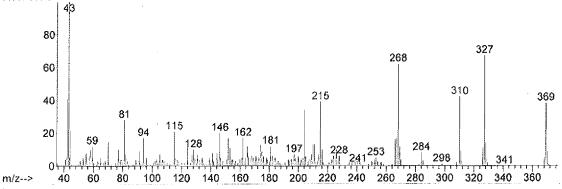
PK# RTLibrary/ID CAS# Qual

C:\Database\SLI.L 1 6.44

HEROIN

000561-27-3 99



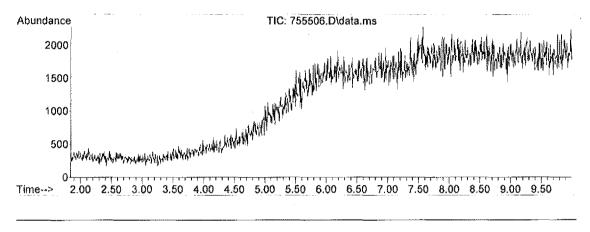


File Name : F:\Q4-2010\SYSTEM7\11_17_10\755506.D

Operator : KAC

Date Acquired : 17 Nov 2010 12:51

Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time

Area

Area %

Ratio %

NO INTEGRATED PEAKS

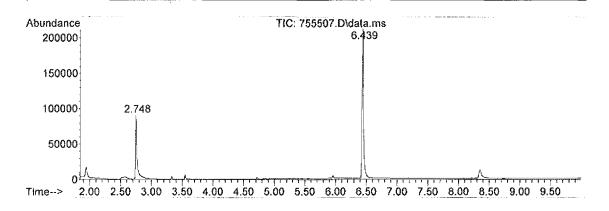
File Name : $F: \Q4-2010\SYSTEM7\11 17 10\755507.D$

Operator : KAC

Date Acquired : 17 Nov 2010 13:04

Sample Name : Submitted by : ASD Vial Number : 7

AcquisitionMeth: DRUGS.M Integrator : RTE



| Ret. Time | Area | Area % | Ratio % | |
|----------------|------|----------------|---------|--|
| 2.748 6.439 | | 32.70 67.30 | | |

File Name : F:\Q4-2010\SYSTEM7\11 17 10\755507.D

Operator : KAC

Date Acquired 17 Nov 2010 13:04

Sample Name

Submitted by ASD Vial Number 7 AcquisitionMeth: DRUGS.M RTE Integrator

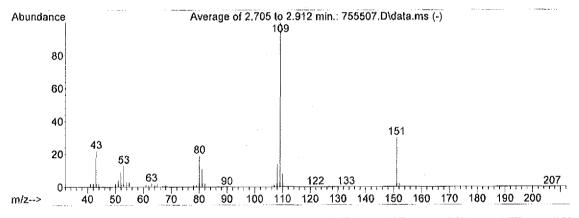
Search Libraries: C:\Database\SLI.L

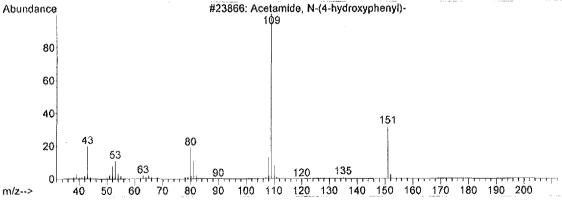
Minimum Quality: 80 Minimum Quality: 70

C:\Database\NIST05a.L

C:\Database\PMW_TOX2.L

| Þk | C# RT | Librar | y/ID | CAS# | Qual |
|----|-------|------------------|--|-------------|----------------|
| 1 | 2. | Acetam Acetam | base\NIST05a.L nide, N-(4-hydroxyphenyl)- nide, N-(4-hydroxyphenyl)- nide, N-(4-hydroxyphenyl)- | 000103-90-2 | 97 94 94 |





File Name : $F: Q4-2010 \SYSTEM7 \11 17 10 \755507.D$

Operator : KAC

Date Acquired : 17 Nov 2010 13:04

Sample Name : Submitted by : ASD

Vial Number : 7 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

C:\Database\SLI.L Minimum Quality: 80 C:\Database\NIST05a.L Minimum Quality: 70

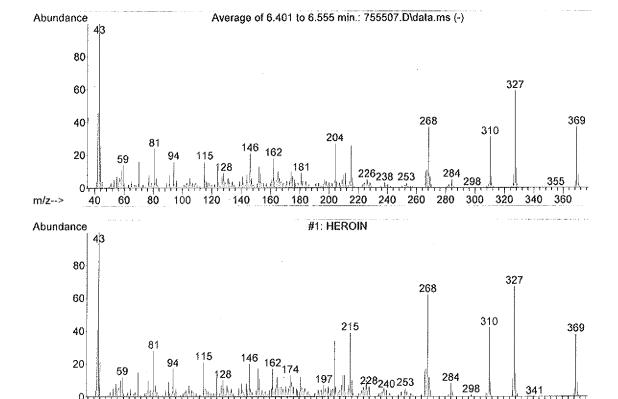
C:\Database\PMW_TOX2.L

PK# RT Library/ID CAS# Qual

2 6.44 C:\Database\SLI.L

HEROIN

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200

220 240 260 280

m/z-->

40

100

120

140

160

300 320 340 360

File Name : $F:\Q4-2010\SYSTEM7\11_17_10\755508.D$

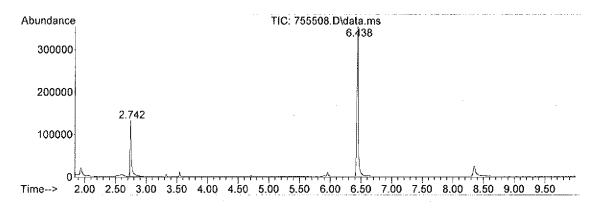
Operator : KAC

Date Acquired : 17 Nov 2010 13:17

Sample Name : Submitted by :

: ASD

Vial Number : 8 AcquisitionMeth: DRUGS.M Integrator : RTE



| 2.742 210110 27.64 38.20 6.438 550011 72.36 100.00 | Ret. Time | Area | Area % | Ratio % | |
|---|----------------|------|--------|---------|--|
| 6,438 5500II /2.36 I00.00 | 2.742 6.438 | | | | |

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755508.D

Operator : KAC

Date Acquired

17 Nov 2010 13:17

Sample Name Submitted by

ASD

Vial Number 8 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

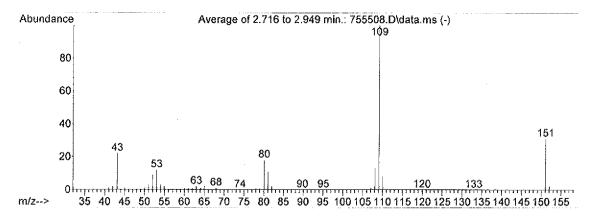
Minimum Quality: 80

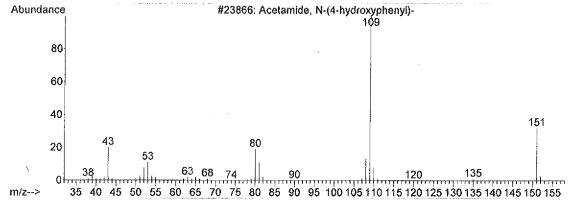
C:\Database\NIST05a.L

Minimum Quality: 70

C:\Database\PMW TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|---|---|----------------|
| 1 | 2.74 | C:\Database\NIST05a.L Acetamide, N-(4-hydroxyphenyl)- Acetamide, N-(4-hydroxyphenyl)- Acetamide, N-(4-hydroxyphenyl)- | 000103-90-2 000103-90-2 000103-90-2 | 97 95 94 |





File Name : F:\Q4-2010\SYSTEM7\11_17_10\755508.D

Operator : KAC

Date Acquired 17 Nov 2010_ 13:17

Sample Name

Submitted by ASD Vial Number 8 AcquisitionMeth: DRUGS.M

Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 C:\Database\NIST05a.L Minimum Quality: 70

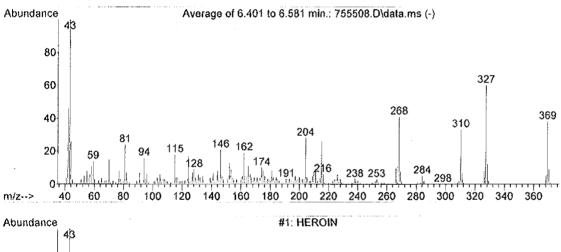
C:\Database\PMW TOX2.L

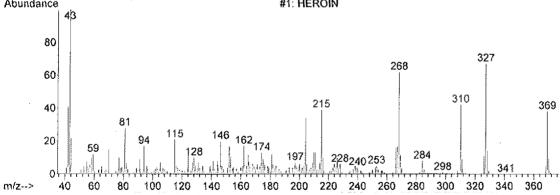
PK# RT Library/ID CAS# Qual

2 6.44 C:\Database\SLI.L

HEROIN

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File Name : F:\Q4-2010\SYSTEM7\11_17_10\755527.D

Operator : KAC

Date Acquired : 17 Nov 2010 17:17

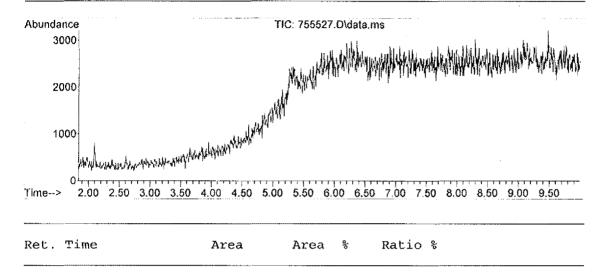
Sample Name : BLANK

Submitted by :

Vial Number :

AcquisitionMeth: DRUGS.M

Integrator : RTE



NO INTEGRATED PEAKS

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755528.D

Operator : KAC

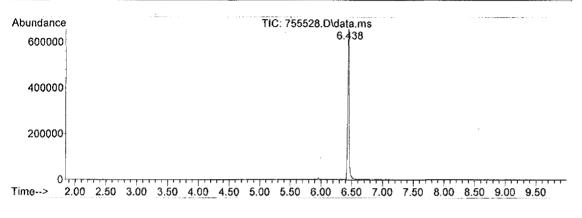
Date Acquired : 17 Nov 2010 17:30

Sample Name : HEROIN STD

Submitted by

Vial Number : 28 AcquisitionMeth: DRUGS.M

Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 6.438 | 1052494 | 100.00 | 100.00 |

File Name : F:\Q4-2010\SYSTEM7\11 17 10\755528.D

Operator : KAC

Date Acquired : 17 Nov 2010 17:30

Sample Name : HEROIN STD

Submitted by

Vial Number 28 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries:

RT

PK#

C:\Database\SLI.L

Minimum Quality: 80

CAS#

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

Minimum Quality: 70

6.44 C:\Database\SLI.L 1

HEROIN

Library/ID

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